

CLAIMS

[0035] What is claimed as new and desired to be protected by Letters Patent of the United States is:

1. An auto-destructible syringe comprising:

a syringe barrel having an inner wall, a proximal end, and a distal end;

a plunger slidably disposed within the syringe barrel;

stopper means on the inner wall of the syringe barrel for preventing the plunger from moving towards the distal end;

a groove on the plunger alignable with the stopper means by axially rotating the plunger relative to the barrel such that when the stopper means is aligned with the groove the plunger can move toward the distal end of the syringe barrel; and

cutting means connected to the plunger for cutting the syringe barrel when the plunger is moved toward the distal end of the syringe barrel.

2. The syringe of claim 1, wherein the syringe barrel is biodegradable.

3. The syringe of claim 1, wherein the syringe barrel comprises a material selected from the group consisting of compressed cardboard, paper, cellophane, gelatin, waterproof coating, bamboo, and wood.

4. The syringe of claim 1, wherein the syringe barrel further comprises a marking to facilitate aligning the groove with the stopper means.

5. The syringe of claim 1, wherein the plunger further comprises an extension to facilitate rotating the plunger to align the groove with the stopper means.
6. The syringe of claim 1, wherein the plunger comprises a biodegradable material.
7. The syringe of claim 1, wherein the plunger comprises a material selected from the group consisting of cellulose, compressed cardboard, paper, cellophane, glassine with gelatin, waterproof coating, bamboo, and wood rubber.
8. The syringe of claim 1, wherein the stopper means comprises a biodegradable material.
9. The syringe of claim 1, wherein the stopper means comprises a material selected from the group consisting of cellulose, compressed cardboard, paper, cellophane, glassine with gelatin, waterproof coating, bamboo, and wood rubber.
10. The syringe of claim 1, wherein the syringe barrel further comprises an opening disposed longitudinally along the barrel.
11. The syringe of claim 10, wherein the opening is covered by a film.
12. The syringe of claim 11, wherein the film is disposed on the inner wall of the barrel.
13. The syringe of claim 10, wherein the cutting means is aligned with the opening when the stopper means is aligned with the plunger groove.
14. The syringe of claim 11, wherein the film comprises a biodegradable material.

15. The syringe of claim 1, wherein the cutting means comprises biodegradable material.
16. The syringe of claim 1, wherein the cutting means comprises a material selected from the group consisting of bamboo, wood, and hardened cellulose.
17. The syringe of claim 11, wherein the cutting means comprises a material capable of perforating the film but incapable of perforating the syringe barrel.
18. The syringe of claim 11, wherein the cutting means comprises a resilient spring member that is biased against the inner wall.
19. The syringe of claim 18, wherein the cutting means is retained by the inner wall of the syringe barrel and protrudes outwardly by its spring bias to perforate the film when the plunger grooves are aligned with the stopper means.